

1 **(November 17, 1997)**

2 ***Turf Reinforced Mat Facing Construction***

3 Secondary reinforcing geosynthetic splices transverse to the slope shall be butted
4 together and the splice shall be held together with hog rings, or other methods
5 approved by the Engineer in a manner that will prevent the splice from separating
6 during geosynthetic installation and backfilling.

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8 The face of the reinforced slope shall be cleared of all rocks, dirt clods,
9 vegetation, trash and other obstructions that may cause the mat to bridge the
10 ground surface. The mat shall be unrolled in the direction of water flow with the
11 flat side against the ground. The turf reinforcement mat shall be anchored at the
12 shoulder of the slope in an anchor trench a minimum of 12 inches deep and 6
13 inches wide as shown in the Plans. The anchor trench shall be excavated prior to
14 placing the erosion mat on the slope. Heavy duty steel pins or polyethylene pegs
15 shall be used to anchor the mat to the slope face as shown in the Plans. Steel
16 pins shall be 0.2 inch diameter minimum with a 1.5 inch diameter steel washer
17 secured at the head of the pin. Polyethylene pegs shall be "T" type or have a 1.5
18 inch diameter washer secured at the head of the peg. All pins or pegs shall be 12
19 inches long minimum. Hog rings, or other methods approved by the Engineer,
20 shall be used to attach the turf reinforcement mat to the cross ribs of the primary
21 reinforcing at the face of the slope. The ties shall be as durable and strong as the
22 material to which they are tied. The turf reinforcement mat shall be securely
23 attached to the cross ribs by tie(s) centered between the pins or pegs.

24
25 Upon completion of the mat installation, 1 inch of Topsoil Type B, thoroughly
26 mixed with 16-16-16 fertilizer and lime, shall be spread over the turf reinforcement
27 mat by drop spreader, cyclone spreader, or by shovels, rakes, and brooms. The
28 Topsoil shall be lightly raked or brushed into the mat apertures to completely fill
29 the mat thickness. The slope shall be seeded with grass seed by broadcast or
30 hydroseeding in accordance with Sections 8-01 and 9-14, at a rate of 0.2 oz./yd².
31 Lime shall be applied at a rate of 30 lbs/yd³, and fertilizer at a rate of 3.7 lbs/yd³.